

ABSTRACT OF THE DISCLOSURE

[44] This coke process is a continuous, non-fluidized, operation. This coke process is environmentally friendly due to its closed circuit operation, eliminating coke particulate emissions, hydrocarbon release and water pollution release into the atmosphere. This process utilizes a flash vessel and reactor agitation system in combination to prevent the buildup of coke and eliminate traditional decoking operations. Within the reactor vessel, the mixing and kneading of the hydrocarbons is critical and occurs to promote devolatilization, carbonization and forming of coke. In addition, a significant reduction in steam usage is achieved. Cokes containing low volatile combustible materials are produced. The coke is then cooled and can be safely and easily transported to storage as solid granules or as a slurry.

DRAWINGS

[45] A schematic of the coking process.

SEQUENCE LISTING

[46] Not Applicable